

What is claimed is:

(1) An annular sliding fluoroplastics member having a composite structure which mainly consists of fluorine plastics and short fibers, wherein 20 or more wt.% of short fibers by weight of a total amount of said short fibers are oriented in a direction along which a burden of a load is large.

(2) An annular sliding fluoroplastics member according to claim 1, wherein 20 or more wt.% of the short fibers by weight of the total amount of said short fibers are oriented in an axial direction.

(3) An annular sliding fluoroplastics member according to claim 1, wherein 20 or more wt.% of the short fibers by weight of the total amount of said short fibers are oriented in a circumferential direction.

(4) An annular sliding fluoroplastics member according to claim 1, wherein 20 or more wt.% of the short fibers by weight of the total amount of said short fibers are oriented in a spiral direction.

(5) An annular sliding fluoroplastics member according to claim 1, wherein 50 or more wt.% of the short fibers by weight of the total amount of said short fibers are oriented in a direction along which a burden of a load is large.

(6) An annular sliding fluoroplastics member according to claim 1, wherein said short fibers are fibrillated aramid fibers, and said fluorine plastics is PTFE plastics.

(7) An annular sliding fluoroplastics member according to claim 1, wherein said composite structure is a structure in which a number of fluorine plastics layers containing short fibers are stacked in a radial direction, and each of said stacked layers has a wavy sectional shape which undulates in an axial direction.

(8) An annular sliding fluoroplastics member according to claim 7, wherein overlapping faces of said layers are integrally coupled to one another.

(9) An annular sliding fluoroplastics member according to claim 1, wherein plural filaments are stitched to said composite structure which mainly consists of said fluorine plastics and said short fibers.

(10) An annular sliding fluoroplastics member according to claim 9, wherein, as said filaments, long fibers selected from aramid fibers, glass fibers, polyimide fibers, and PTFE fibers which are stretched, or metal wires selected from stainless wires, aluminum wires, and copper wires are used.

(11) An annular sliding fluoroplastics member according to claim 1, wherein at least one surface of said annular sliding fluoroplastics member having said composite structure which mainly consists of said fluorine plastics and said short fibers is covered with an expanded graphite sheet.

(12) An annular sliding fluoroplastics member according to claim 1, wherein said annular sliding fluoroplastics member

having said composite structure which mainly consists of said fluorine plastics and said short fibers is impregnated with a lubricant.

5 (13) A method of producing an annular sliding fluoro-
plastics member comprising the steps of: forming a mixture of
fluorine plastics and short fibers into a sheet-like element;
cutting out a tape-like element from said sheet-like element;
spirally winding said cut out tape-like element to form an
annular wound body; compressively deforming said wound body
10 by pressurizing said wound body in an axial direction; during
or after the deformation, heating said wound body to a tem-
perature which is equal to or higher than a melt temperature
of said fluorine plastics; and cooling said wound body to
harden said wound body.

15 (14) A method of producing an annular sliding fluoro-
plastics member according to claim 13, wherein a direction
along which said tape-like element is cut out from said sheet-
like element is a direction which is perpendicular to orienta-
tion of said short fibers.

20 (15) A method of producing an annular sliding fluoro-
plastics member according to claim 13, wherein a direction
along which said tape-like element is cut out from said sheet-
like element is a direction which is parallel to orientation
of said short fibers.

25 (16) A method of producing an annular sliding fluoro-

plastics member according to claim 13, wherein a direction along which said tape-like element is cut out from said sheet-like element is a bias direction with respect to a rectangular sheet-like element.

5 (17) A method of producing an annular sliding fluoroplastics member according to claim 13, wherein said short fibers are fibrillated aramid fibers, and said fluorine plastics is PTFE plastics.

10 (18) A method of producing an annular sliding fluoroplastics member according to claim 13, wherein plural filaments are stitched to said sheet-like element at intervals, and said tape-like element is then cut out from said sheet-like element.

15 (19) A method of producing an annular sliding fluoroplastics member according to claim 18, wherein, as said filaments, long fibers selected from aramid fibers, glass fibers, polyimide fibers, and PTFE fibers which are stretched, or metal wires selected from stainless wires, aluminum wires, and copper wires are used.

20 (20) A method of producing an annular sliding fluoroplastics member according to claim 13, wherein, when or after said tape-like element is spirally wound, an expanded graphite sheet is placed over at least one surface of said annular wound body to cover the surface with said expanded graphite
25 sheet.

ADD A15

姓名	性别	年龄	籍贯	职业	文化程度	健康状况	婚姻状况	子女情况	其他
王德胜	男	45	山东	工人	高中	良好	已婚	2子1女	
李小红	女	38	河南	教师	大学	良好	已婚	1子1女	
张国强	男	52	江苏	干部	大学	良好	已婚	2子1女	
刘小芳	女	41	湖北	工人	初中	良好	已婚	1子1女	
陈为民	男	35	浙江	医生	大学	良好	已婚	1子1女	
赵大伟	男	48	广东	商人	高中	良好	已婚	2子1女	
孙丽娟	女	33	四川	护士	大学	良好	已婚	1子1女	
周建明	男	55	湖南	工人	初中	良好	已婚	2子1女	
吴小华	女	42	安徽	教师	高中	良好	已婚	1子1女	
郑国强	男	39	江西	干部	大学	良好	已婚	1子1女	
冯小芳	女	36	福建	工人	高中	良好	已婚	1子1女	
黄为民	男	44	广西	商人	初中	良好	已婚	2子1女	
朱大伟	男	50	海南	工人	高中	良好	已婚	1子1女	
李小红	女	47	重庆	教师	大学	良好	已婚	1子1女	
张国强	男	43	四川	干部	高中	良好	已婚	2子1女	
刘小芳	女	37	云南	工人	初中	良好	已婚	1子1女	
陈为民	男	40	贵州	商人	高中	良好	已婚	1子1女	
赵大伟	男	46	陕西	工人	初中	良好	已婚	2子1女	
孙丽娟	女	34	甘肃	教师	大学	良好	已婚	1子1女	
周建明	男	53	宁夏	工人	高中	良好	已婚	2子1女	
吴小华	女	41	青海	商人	初中	良好	已婚	1子1女	
郑国强	男	38	新疆	干部	大学	良好	已婚	1子1女	
冯小芳	女	35	内蒙古	工人	高中	良好	已婚	1子1女	
黄为民	男	44	吉林	商人	初中	良好	已婚	2子1女	
朱大伟	男	50	辽宁	工人	高中	良好	已婚	1子1女	
李小红	女	47	黑龙江	教师	大学	良好	已婚	1子1女	
张国强	男	43	河北	干部	高中	良好	已婚	2子1女	
刘小芳	女	37	山西	工人	初中	良好	已婚	1子1女	
陈为民	男	40	山东	商人	高中	良好	已婚	1子1女	
赵大伟	男	46	河南	工人	初中	良好	已婚	2子1女	
孙丽娟	女	34	湖北	教师	大学	良好	已婚	1子1女	
周建明	男	53	湖南	工人	高中	良好	已婚	2子1女	
吴小华	女	41	安徽	商人	初中	良好	已婚	1子1女	
郑国强	男	38	江西	干部	大学	良好	已婚	1子1女	
冯小芳	女	35	福建	工人	高中	良好	已婚	1子1女	
黄为民	男	44	广西	商人	初中	良好	已婚	2子1女	
朱大伟	男	50	海南	工人	高中	良好	已婚	1子1女	
李小红	女	47	重庆	教师	大学	良好	已婚	1子1女	
张国强	男	43	四川	干部	高中	良好	已婚	2子1女	
刘小芳	女	37	云南	工人	初中	良好	已婚	1子1女	
陈为民	男	40	贵州	商人	高中	良好	已婚	1子1女	
赵大伟	男	46	陕西	工人	初中	良好	已婚	2子1女	
孙丽娟	女	34	甘肃	教师	大学	良好	已婚	1子1女	
周建明	男	53	宁夏	工人	高中	良好	已婚	2子1女	
吴小华	女	41	青海	商人	初中	良好	已婚	1子1女	
郑国强	男	38	新疆	干部	大学	良好	已婚	1子1女	
冯小芳	女	35	内蒙古	工人	高中	良好	已婚	1子1女	
黄为民	男	44	吉林	商人	初中	良好	已婚	2子1女	
朱大伟	男	50	辽宁	工人	高中	良好	已婚	1子1女	
李小红	女	47	黑龙江	教师	大学	良好</			